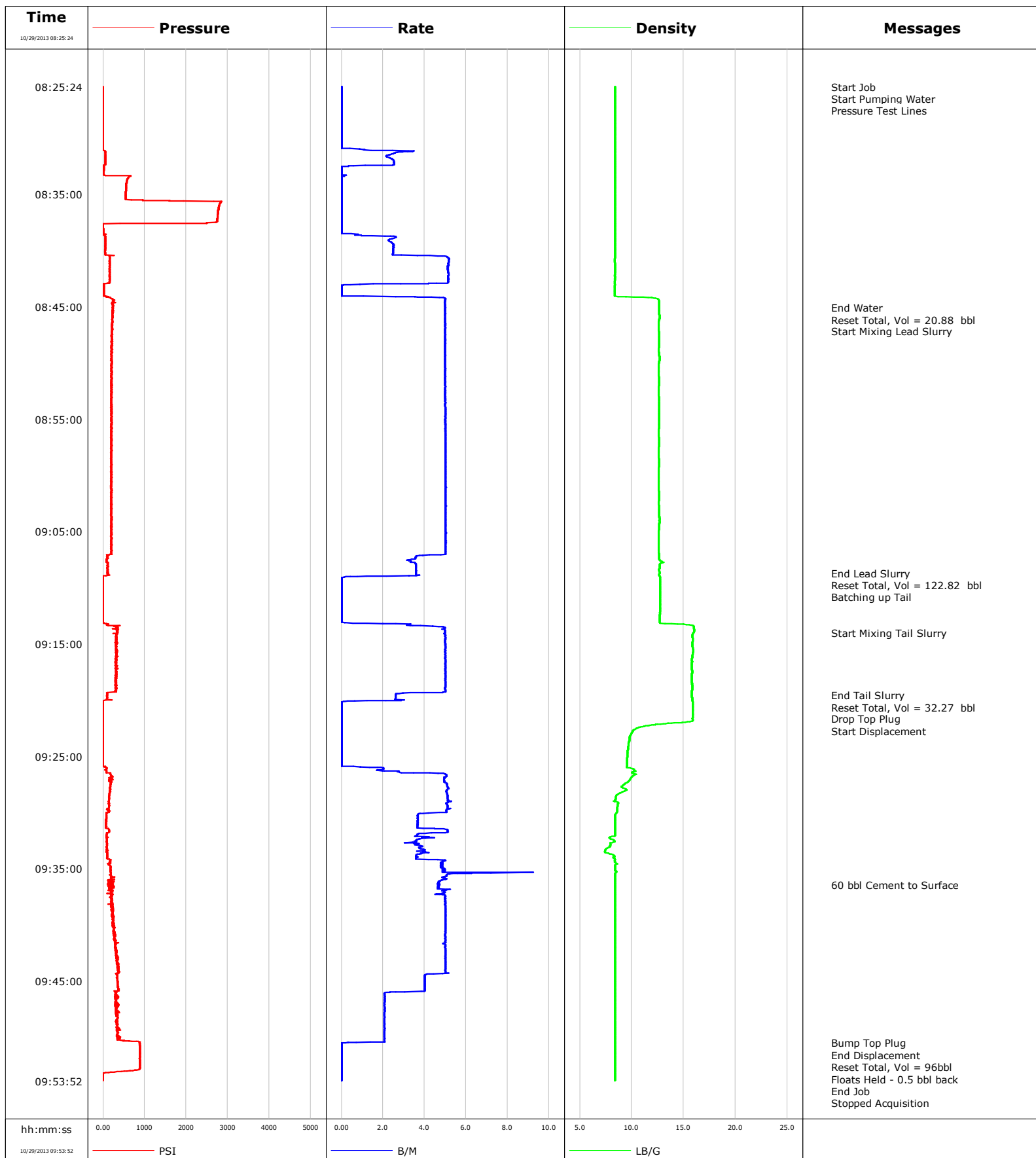


Well Rose 22-4D
Field Mamm Creek
Engineer Michael Simon/J Fanning
Country United States

Client Encana
SIR No. C459-01959
Job Type 9 5/8 Surface
Job Date 10-29-2013





Cementing Service Report

					Customer Encana		Job Number C459-01959	
Well Rose 22-4D 22-4D			Location (legal) Grand Junction		Schlumberger Location Rock Springs		Job Start Oct/29/2013	
Field Mamm Creek		Formation Name/Type Shale		Deviation	Bit Size 12.6 in	Well MD 1305.0 ft		Well TVD 1273.4 ft
County Garfield		State/Province Colorado		BHP	BHST 34 degF	BHCT 28 degF	Pore Press. Gradient	
Well Master 0631485494		API/UWI 05045221210000						
Rig Name patterson 303	Drilled For Gas	Service Via Land	Casing/Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type Development	1290.5	9.630	36.0	J55	8RD	
			0.0	0.000	0.0			
Drilling Fluid Type		Max. Density	Plastic Viscosity 9.000 cP	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 9 5/8 Surface							
Max. Allowed Tub. Press 3500 psi	Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
Service Instructions							Diameter	
			Treat Down Casing	Displacement 96.0 bbl	Packer Type	Packer Depth		
Tubing Vol.	Casing Vol. 99.7 bbl	Annular Vol. 87.0 bbl	Openhole Vol. 190.0 bbl					
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure 639 psi			Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1290.5 ft		Tool Type		
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type		Tool Depth		
Cement Head Type Single				Stage Tool Depth		Tail Pipe Size		
Job Scheduled For Oct/29/2013		Arrived on Location Oct/29/2013	Leave Location Oct/29/2013	Collar Type Float		Tail Pipe Depth		
				Collar Depth 1246.4 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message	
10/29/2013	07:18:27						Started Acquisition	
10/29/2013	08:25:24	-2	0.0	8.39	0.0	0.0		
10/29/2013	08:25:25						Start Job	
10/29/2013	08:25:25	-2	0.0	8.39	0.0	0.0		
10/29/2013	08:25:28						Start Pumping Water	
10/29/2013	08:25:28	-2	0.0	8.39	0.0	0.0		
10/29/2013	08:25:30						Pressure Test Lines	
10/29/2013	08:25:30	-2	0.0	8.39	0.0	0.0		
10/29/2013	08:27:27	-2	0.0	8.39	0.0	0.0		
10/29/2013	08:30:27	-5	0.0	8.39	0.0	0.0		
10/29/2013	08:33:27	629	0.0	8.39	3.6	3.6		
10/29/2013	08:36:27	2772	0.0	8.39	3.6	3.6		
10/29/2013	08:39:27	49	2.5	8.38	5.5	5.5		
10/29/2013	08:42:27	160	5.1	8.38	18.3	18.3		
10/29/2013	08:45:04						End Water	
10/29/2013	08:45:04	232	5.0	12.63	25.7	25.7		
10/29/2013	08:45:06						Reset Total, Vol = 20.88 bbl	
10/29/2013	08:45:06	246	5.0	12.63	25.9	25.9		
10/29/2013	08:45:10						Start Mixing Lead Slurry	
10/29/2013	08:45:10	232	5.0	12.63	0.3	0.3		
10/29/2013	08:45:27	229	5.0	12.63	1.7	1.7		

Well			Field		Job Start	Customer	Job Number
Rose 22-4D 22-4D			Mamm Creek		Oct/29/2013	Encana	C459-01959
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Stage BBL	Message
10/29/2013	08:51:27	211	5.0	12.63	31.7	31.7	
10/29/2013	08:54:27	196	5.0	12.64	46.7	46.7	
10/29/2013	08:57:27	197	5.0	12.62	61.7	61.7	
10/29/2013	09:00:27	192	5.0	12.58	76.8	76.8	
10/29/2013	09:03:27	190	5.0	12.66	91.9	91.9	
10/29/2013	09:06:27	197	5.0	12.61	106.9	106.9	
10/29/2013	09:08:42						End Lead Slurry
10/29/2013	09:08:42	123	3.6	12.68	115.8	115.8	
10/29/2013	09:08:43						Reset Total, Vol = 122.82 bbl
10/29/2013	09:08:43	123	3.6	12.67	115.9	115.9	
10/29/2013	09:09:27	-4	0.0	12.75	0.0	0.0	
10/29/2013	09:09:35						Batching up Tail
10/29/2013	09:09:35	-5	0.0	12.75	0.0	0.0	
10/29/2013	09:12:27	-5	0.0	12.71	0.0	0.0	
10/29/2013	09:14:01						Start Mixing Tail Slurry
10/29/2013	09:14:01	339	5.0	15.94	3.8	3.8	
10/29/2013	09:15:27	331	5.0	15.91	10.9	10.9	
10/29/2013	09:18:27	319	5.0	15.81	25.9	25.9	
10/29/2013	09:19:33						End Tail Slurry
10/29/2013	09:19:33	98	2.6	15.78	31.0	31.0	
10/29/2013	09:19:34						Reset Total, Vol = 32.27 bbl
10/29/2013	09:19:34	98	2.6	15.78	31.0	31.0	
10/29/2013	09:20:06						Drop Top Plug
10/29/2013	09:20:06	-3	0.3	15.86	0.0	0.0	
10/29/2013	09:20:07						Start Displacement
10/29/2013	09:20:07	-3	0.2	15.87	0.0	0.0	
10/29/2013	09:21:27	-3	0.0	15.87	0.0	0.0	
10/29/2013	09:24:27	-2	0.0	9.62	0.0	0.0	
10/29/2013	09:27:27	178	5.1	9.34	6.1	6.1	
10/29/2013	09:30:27	75	3.7	8.40	20.8	20.8	
10/29/2013	09:33:27	83	4.0	7.41	32.5	32.5	
10/29/2013	09:36:26						60 bbl Cement to Surface
10/29/2013	09:36:26	193	4.7	8.39	46.4	46.4	
10/29/2013	09:36:27	116	4.6	8.39	46.5	46.5	
10/29/2013	09:39:27	231	5.0	8.39	61.3	61.3	
10/29/2013	09:42:27	338	5.0	8.39	76.3	76.3	
10/29/2013	09:45:27	356	4.0	8.39	90.3	90.3	
10/29/2013	09:50:30						Bump Top Plug
10/29/2013	09:50:30	885	0.0	8.39	101.5	101.5	
10/29/2013	09:50:32						End Displacement
10/29/2013	09:50:32	882	0.0	8.39	101.5	101.5	
10/29/2013	09:50:41						Reset Total, Vol = 96bbl
10/29/2013	09:50:41	881	0.0	8.39	101.5	101.5	
10/29/2013	09:51:27	882	0.0	8.39	0.0	0.0	
10/29/2013	09:53:44						Floats Held - 0.5 bbl back
10/29/2013	09:53:44	-2	0.0	8.39	0.0	0.0	
10/29/2013	09:53:50						End Job
10/29/2013	09:53:50	-2	0.0	8.39	0.0	0.0	
10/29/2013	09:53:52	-2	0.0	8.39	0.0	0.0	

Well	Field	Job Start	Customer	Job Number
Rose 22-4D 22-4D	Mamm Creek	Oct/29/2013	Encana	C459-01959

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2	
4.4		0.0	9.3	155.0	0.0	21.0		
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
2865	-2	310	800					
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume		
	154.0 bbl		96.0 bbl	55 degF	<input checked="" type="checkbox"/>	60.0 bbl		
Customer or Authorized Representative			Schlumberger Supervisor		Washed Thru Perfs	To		
					<input type="checkbox"/>			
					Circulation Lost	Job Completed		
Charlie Brown			Michael Simon/J Fanning		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
					-	-		